

Recovered Materials Advisory Notice (RMAN)

Source: Federal Register, 1 May 1995 (60 FR 21386-21394) ,13 November 1997 (62 FR 60976-60982), 19 January 2000 (65 FR 3082-3094)

PRODUCTS FOR WHICH EPA* HAS ESTABLISHED MINIMUM RECOVERED CONTENT LEVELS		
Designated Items	Minimum Postconsumer Materials Content (%)	Minimum Total Recovered Materials Content (%)
PAPER AND PAPER PRODUCTS		
Brown papers (e.g., bags)	5	
Corrugated boxes	35	
Doilies	40	
Facial tissue	5	
Fiber boxes	35	
High-grade bleached printing and writing paper (includes envelopes, office paper, copier paper, and others)	50 minimum percentage of waste paper as defined in 40 CFR 247	
Newsprint	40	
Paper napkins	30	
Paper towels	40	
Toilet tissue	20	
VEHICULAR PRODUCTS		
Lubricating oil	>25	
Tires	retread tires	
TRANSPORTATION PRODUCTS		
Channelizers (plastic)	25-95	
Channelizers (rubber, base only)	100	
Delineators (plastic)	25-90	
Delineators (rubber, base only)	100	
Delineators (steel, base only)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Flexible delineators (plastic)	25-85	
Parking stops (concrete containing coal fly ash)		20-40
Parking stops (concrete containing GGBF* slag)		25-75
Parking stops (plastic or rubber)	100	
Traffic barricades (fiberglass)		100
Traffic barricades (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Traffic barricades, (HDPE*, LDPE*, PET*)	80-100	100
Traffic cones (PVC*, LDPE*, crumb rubber)		50-100
PARK AND RECREATION PRODUCTS		
Fencing (plastic)	60-100	90-100
Park benches and picnic tables (concrete)		15-40
Park benches and picnic tables (aluminum)	25	
Park benches and picnic tables (plastic)	50-100	100

PRODUCTS FOR WHICH EPA* HAS ESTABLISHED MINIMUM RECOVERED CONTENT LEVELS		
Designated Items	Minimum Postconsumer Materials Content (%)	Minimum Total Recovered Materials Content (%)
composites)		
Park benches and picnic tables (plastic)	90-100	100
Park benches and picnic tables (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Playground equipment (aluminum)	25	
Playground equipment (plastics composites)	50-75	95-100
Playground equipment (plastics)	90-100	100
Playground equipment (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Playground surfaces (rubber or plastic)	90-100	
Running tracks (rubber or plastic)	90-100	
CONSTRUCTION PRODUCTS		
Carpet cushion (bonded polyurethane)	15-50	15-50
Carpet cushion (jute)	40	
Carpet cushion (rubber)	60-90	60-90
Carpet cushion (synthetic fibers)		100
Cement and concrete (coal fly ash)		0-40
Cement and concrete (ground granulated blast furnace slag)		25-50
Consolidated latex paint	100	
Floor tiles - heavy duty/commercial (plastic)		90-100
Floor tiles - heavy duty/commercial (rubber)	90-100	
Flowable fill (containing coal fly ash and/or ferrous foundry sands)	6-95	
Insulation materials	5-75 depending on type; select highest recovered materials content	
Laminated paperboards	100	
Patio blocks (plastic or plastic blends)		90-100
Patio blocks (rubber or rubber blends)	90-100	
Polyester carpet face fiber (PET* resin)	25-100	
Railroad grade crossing surfaces (concrete coal)		15-20
Railroad grade crossing surfaces (rubber)		85-95
Railroad grade crossing surfaces (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Reprocessed and consolidated latex paint (gray, brown, earth tones, and other dark colors)	50-99	
Reprocessed and consolidated latex paint (white, off-white, and pastel colors)	20	
Shower and restroom dividers/partitions (plastic)	20-100	20-100
Shower and restroom dividers/partitions (steel)		
Basic Oxygen Furnace (BOF)	16	25-30

PRODUCTS FOR WHICH EPA* HAS ESTABLISHED MINIMUM RECOVERED CONTENT LEVELS		
Designated Items	Minimum Postconsumer Materials Content (%)	Minimum Total Recovered Materials Content (%)
Electric Arc Furnace (EAF)	67	100
Structural fiberboard		80-100
LANDSCAPING PRODUCTS		
Hose garden (rubber and/or plastic)	60-65	
Hose soaker (rubber and/or plastic)	60-70	
Lawn and garden edging	30-100	30-100
Paper-based hydraulic mulch	100 postconsumer recovered paper	
Plastic lumber landscaping timbers and posts (HDPE*)	25-100	75-100
Plastic lumber landscaping timbers and posts (HDPE*/fiberglass)	75	95
Plastic lumber landscaping timbers and posts (Mixed plastics/sawdust)	50	100
Plastic lumber landscaping timbers and posts (other mixed resins)	50-100	95-100
Wood-based hydraulic mulch		100 post consumer recovered paper
NONPAPER OFFICE PRODUCTS		
Office recycling containers and office waste receptacles (paper)	refer to the paper product recommendations in the “paper and paper products” section of the RMAN for specific material requirements	
Office recycling containers and office waste receptacles (plastic)	20-100	
Office recycling containers and office waste receptacles (steel)	16	25-30
Plastic clip portfolios (HDPE*)	90	
Plastic clipboards (HDPE*)	90	
Plastic clipboards (misc. plastics)	15	15-80
Plastic clipboards (PS)	50	
Plastic desktop accessories (polystyrene)	25-80	
Plastic envelopes	25	25-35
Plastic file folder (HDPE*)	90	
Plastic presentation folders (HDPE*)	90	
Plastic trash bags	10-100	
Plastic-covered binders		25-50
Solid plastic binders (HDPE*)	90	
Solid plastic binders (misc. plastics)	80	
Solid plastic binders (PE)	30-50	30-50
Solid plastic binders (PET*)	100	
MISCELLANEOUS PRODUCTS		
Awards and plaques (glass)	75-100	100
Awards and plaques (paper)	40-100	40-100
Awards and plaques (plastic and plastic/wood composite)	50-100	95-100
Awards and plaques (wood)		100

PRODUCTS FOR WHICH EPA* HAS ESTABLISHED MINIMUM RECOVERED CONTENT LEVELS		
Designated Items	Minimum Postconsumer Materials Content (%)	Minimum Total Recovered Materials Content (%)
Industrial drums (fiber)	100	
Industrial drums (HDPE*)	30-100	30-100
Industrial drums (steel)	16	25-30
Mats (plastic)	10-100	100
Mats (rubber)	75-100	85-100
Mats (rubber/plastic composite)	100	
Paperboard pallets	50	
Plastic pallets (plastic lumber)	100	
Plastic pallets (thermoformed)	25-50	
Signage (aluminum signs)	25	
Signage (plastic sign posts/supports)	80-100	80-100
Signage (plastic signs)	80-100	80-100
Signage (steel sign posts/supports)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Sorbents used in oil and solvent cleanup and animal bedding (other organics/ multi-materials)		100
Sorbents used in oil and solvent cleanup and animal bedding (paper)	90-100	100
Sorbents used in oil and solvent cleanup and animal bedding (plastics)		25-100
Sorbents used in oil and solvent cleanup and animal bedding (textiles)	95-100	95-100
Sorbents used in oil and solvent cleanup and animal bedding (wood)		100
Strapping and stretch wrap (polyester)	50-85	50-85
Strapping and stretch wrap (polypropylene)		10-40
Strapping and stretch wrap (steel)		
Basic Oxygen Furnace (BOF)	16	25-30
Electric Arc Furnace (EAF)	67	100
Wooden pallets	95-100	

*EPA = Environmental Protection Agency; PVC = Polyvinyl chloride; LDPE = Linear low density polyethylene; HDPE = High density polyethylene; PET = Polyethylene Terephthalate; GGBF = Ground granulated blast furnace.